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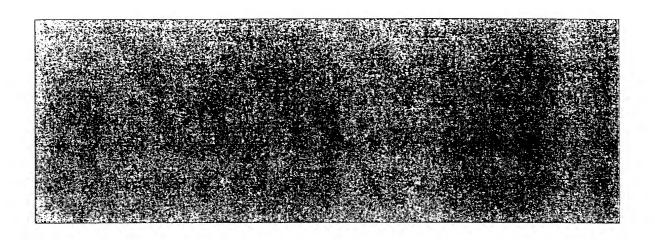


FIG. 1

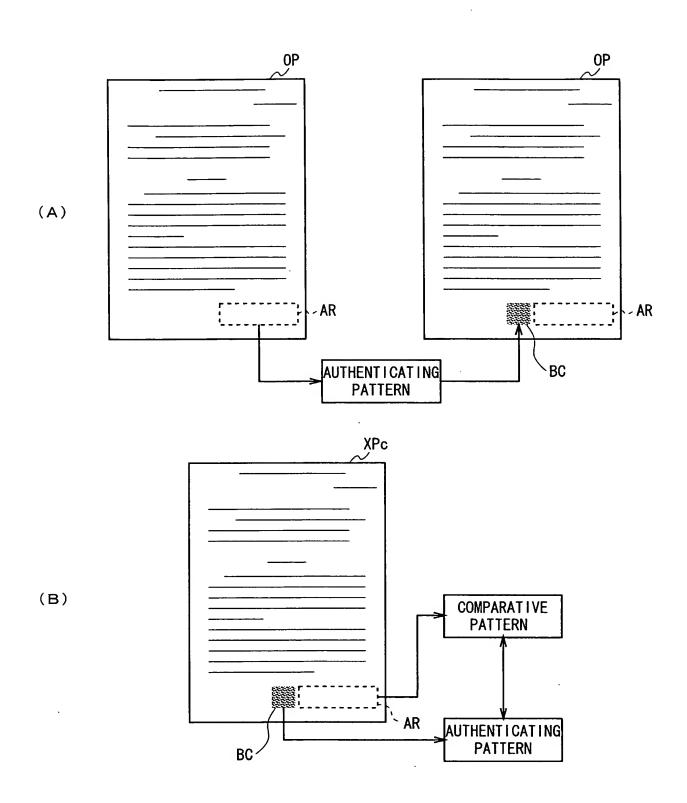


FIG. 2

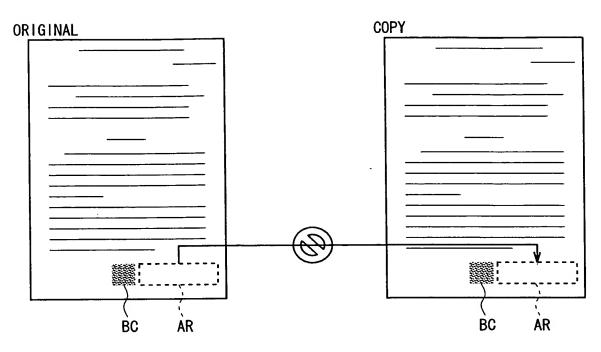


FIG. 3

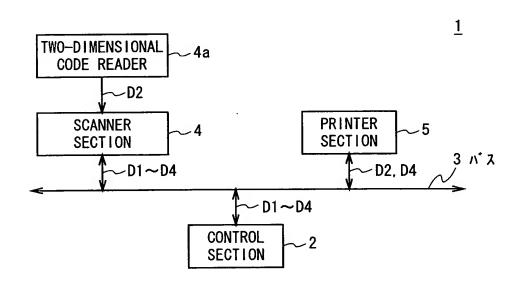
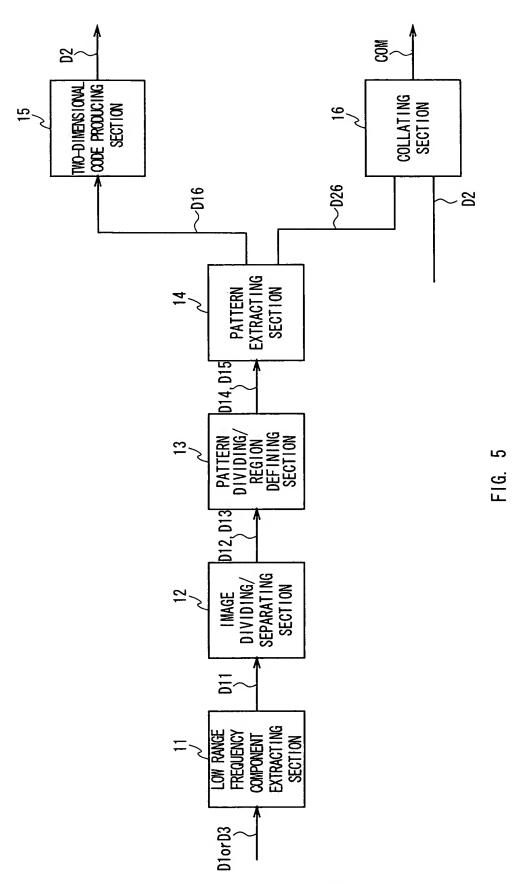


FIG. 4



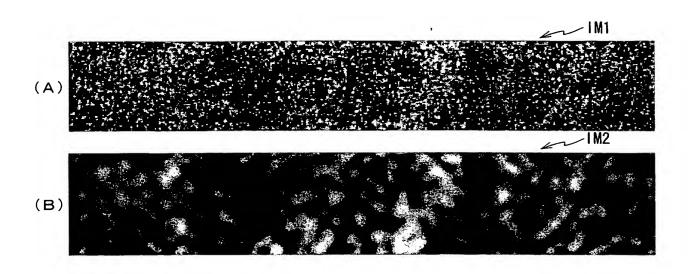


FIG. 6

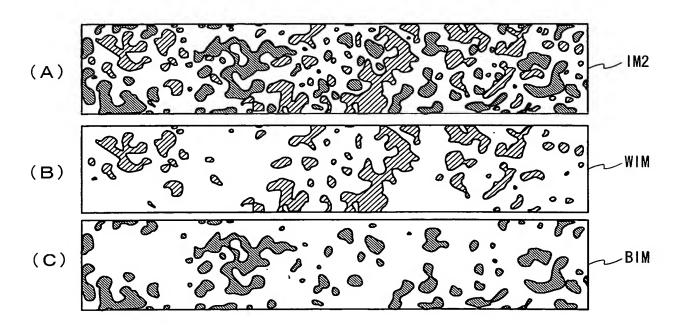


FIG. 7

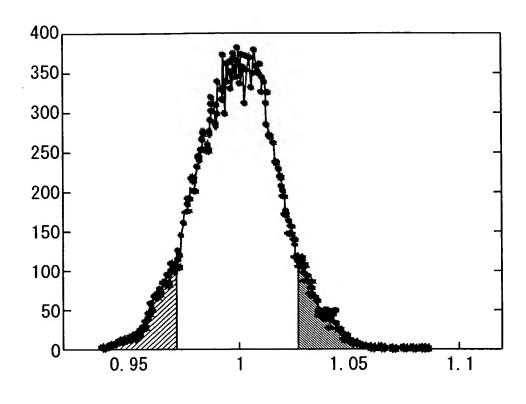
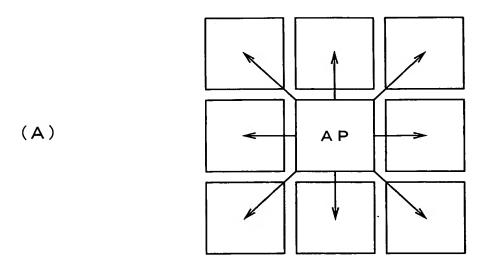


FIG. 8



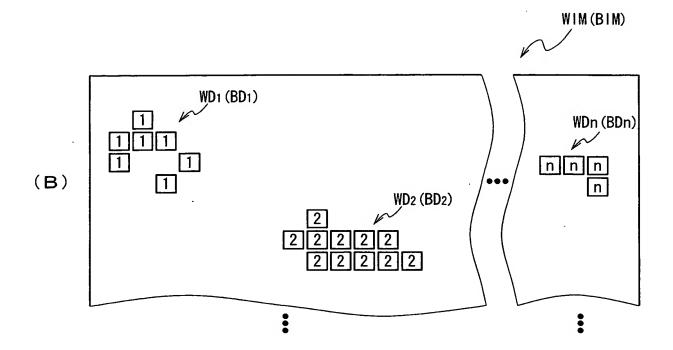


FIG. 9

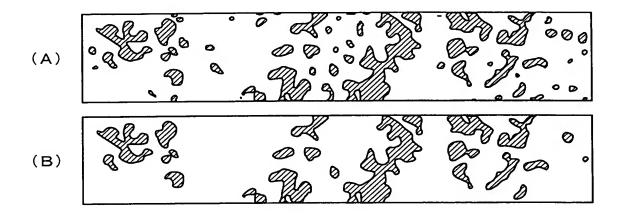


FIG. 10

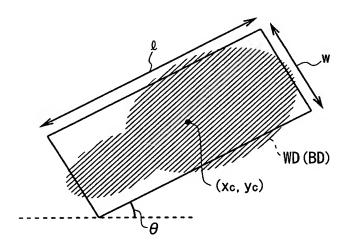


FIG. 11

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		RANGE OF DATA	DATA SIZE
	COORDINATE OF THE CENTER (xc, yc)	0~1023	2×16bit
(A)	LONG SIDE 2	0~1023	16bit
•	SHORT SIDE w	0~1023	16bit
	ANGLE BETWEEN THE LONG SIDE AND THE AXIS $ heta$	-90~90	8bit
		TOTAL	72bit

(B)

	AVERAGE	MAXIMAM	MINIMUM
WHITE DOMAIN	24. 7	30	21
BLACK DOMAIN	23. 6	30	15
TOTAL	48. 3	56	41
SIZE	435byte	504byte	369byte

FIG. 12

FIG 13

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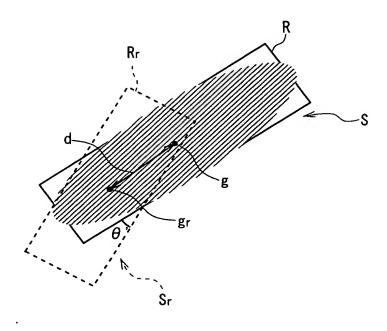


FIG. 14

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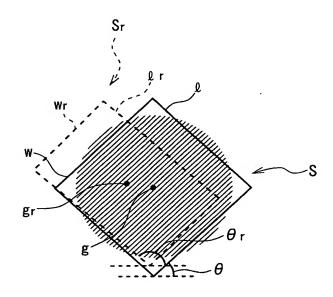


FIG. 15

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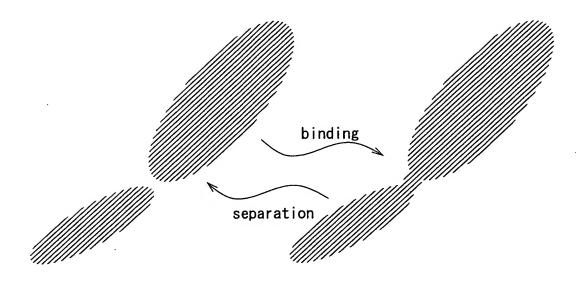
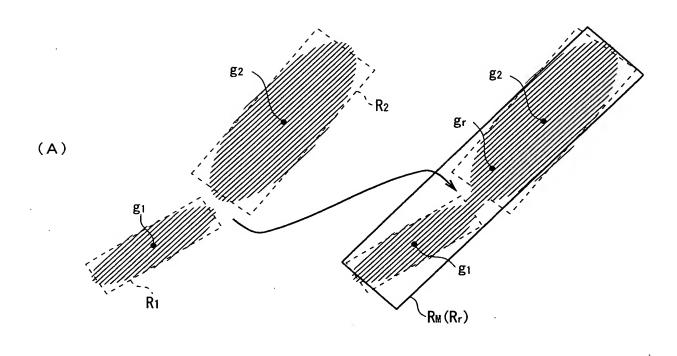


FIG. 16



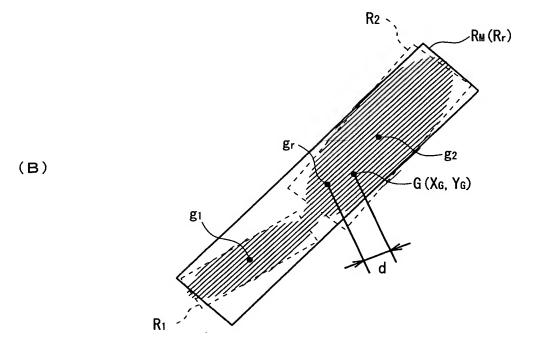
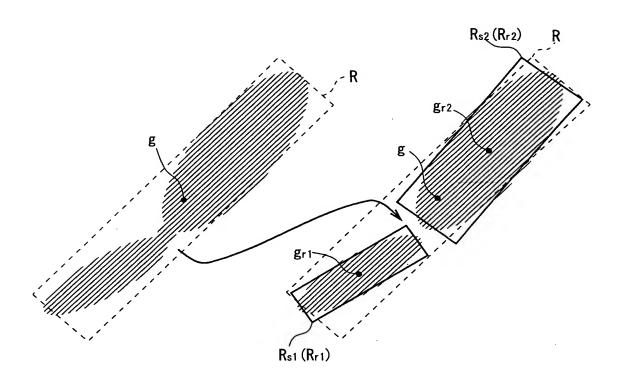


FIG. 17



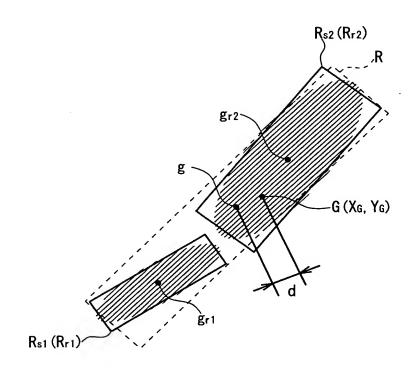
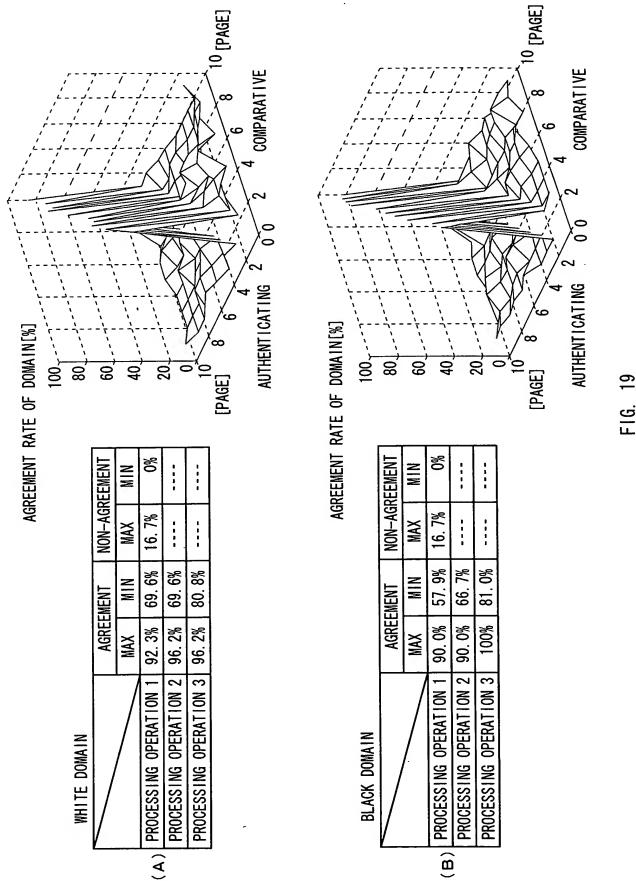
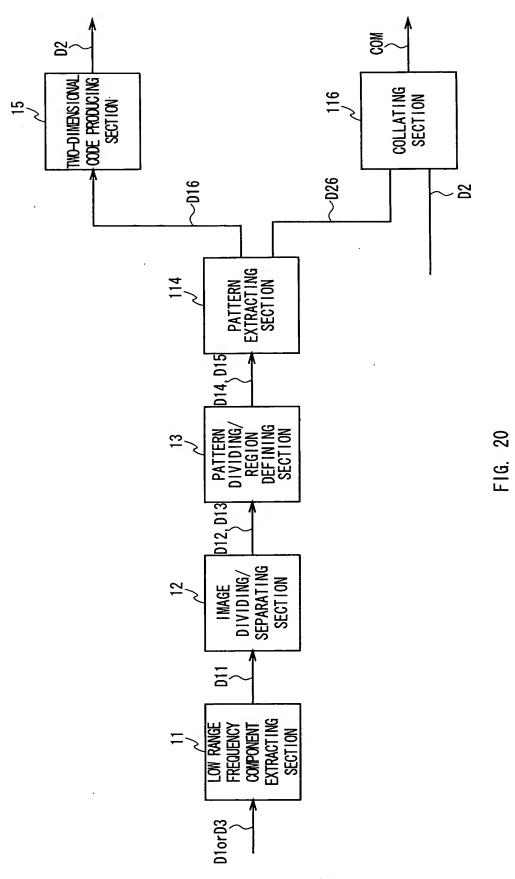


FIG. 18



F1G.



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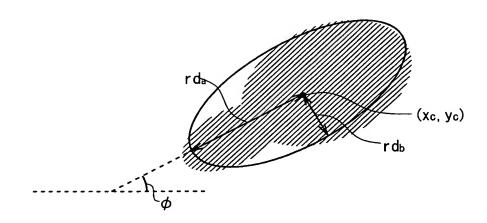


FIG. 21

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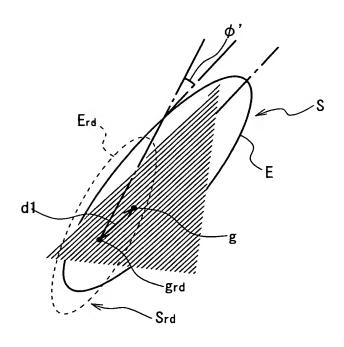


FIG. 22

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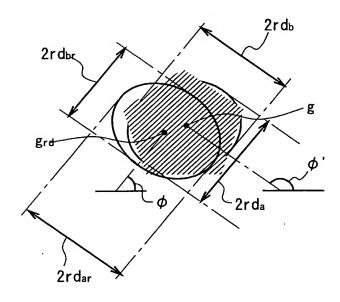


FIG. 23

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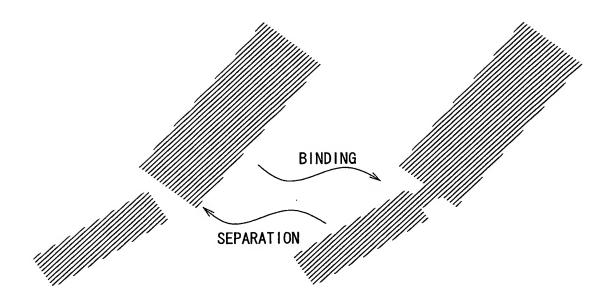
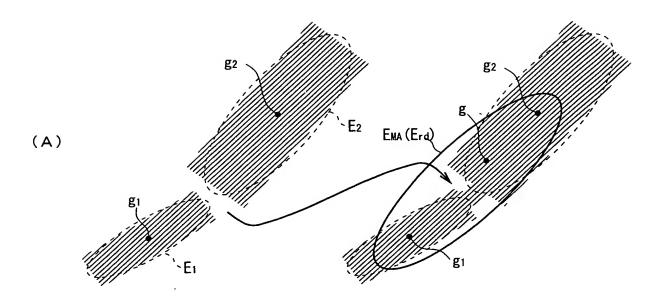


FIG. 24



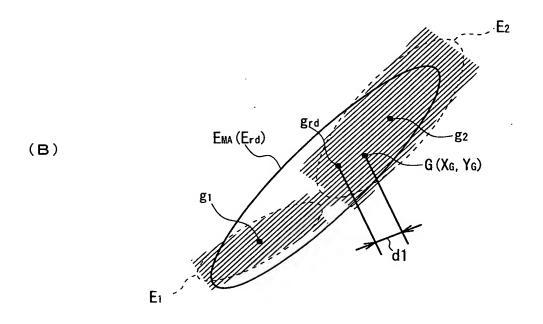
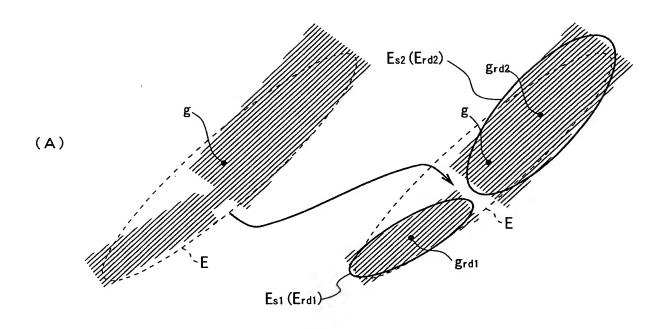


FIG. 25



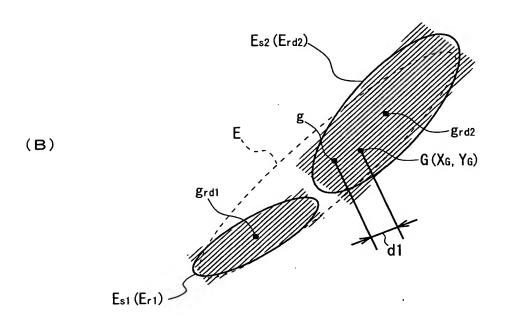
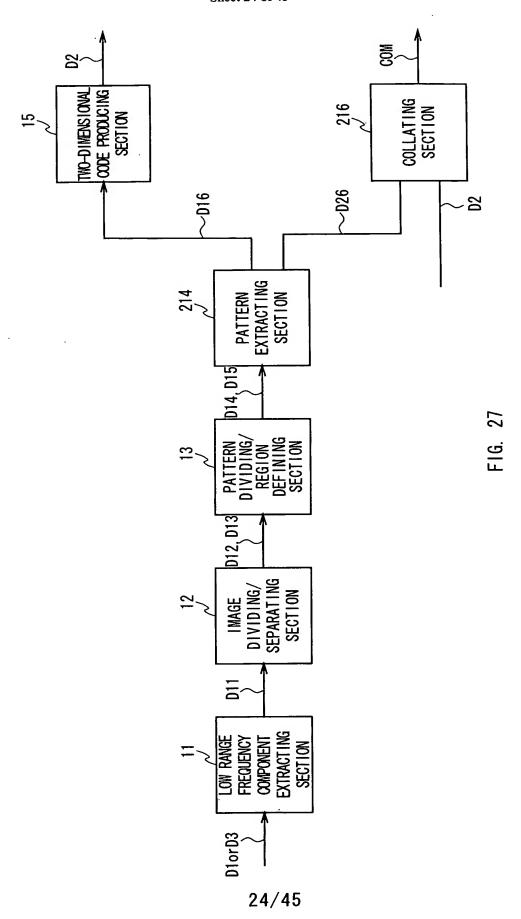


FIG. 26



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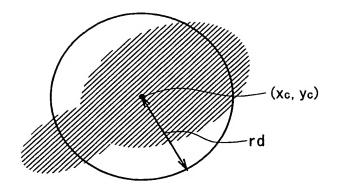


FIG. 28

	RANGE OF DATA	DATA SIZE
COORDINATE OF THE CENTER(xc, yc)	0~1023	2×16bit
RADIUS r d	0~1023	16bit
	TOTAL	48bit

FIG. 29

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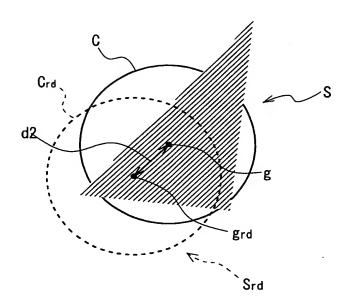
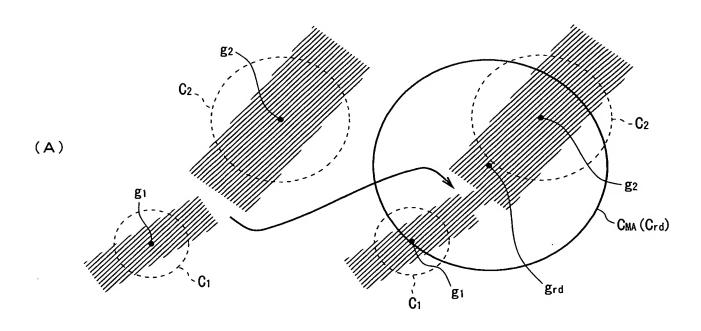


FIG. 30



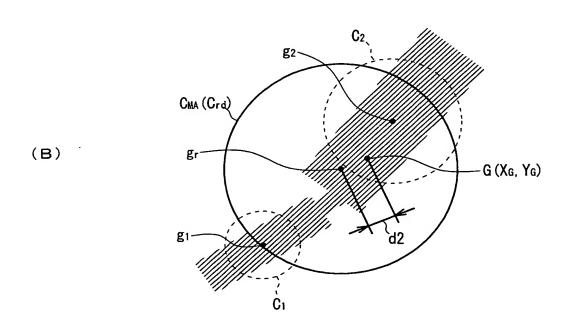
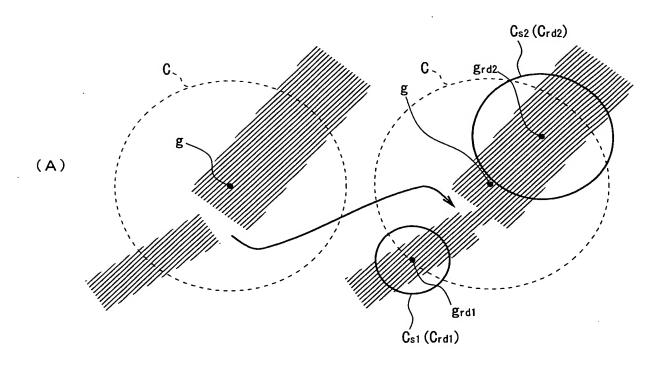


FIG. 31



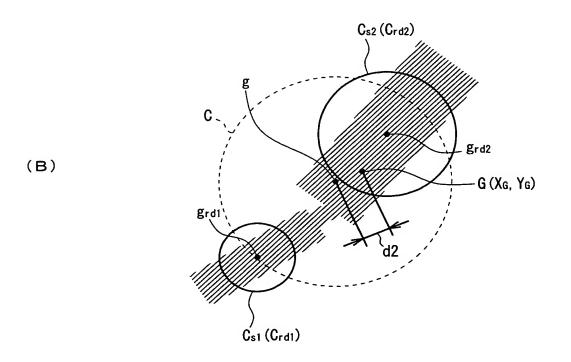
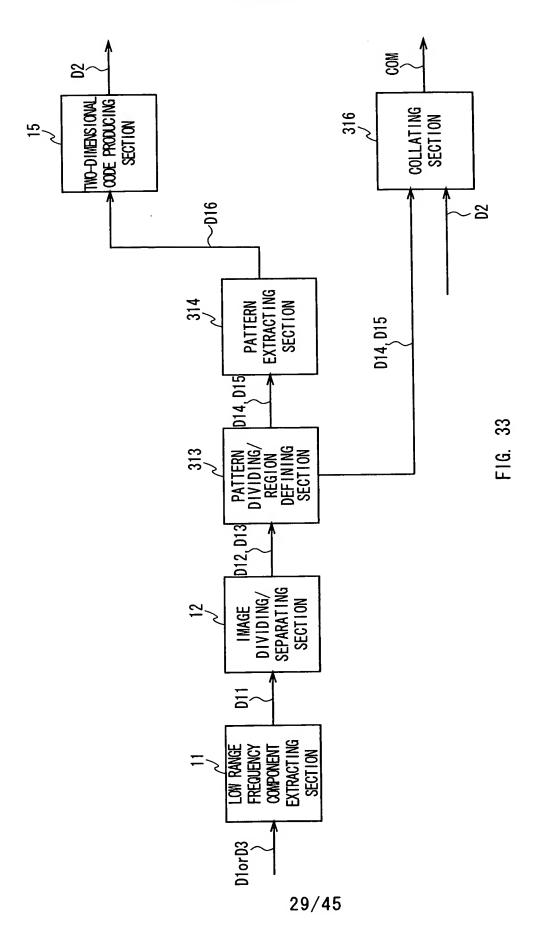


FIG. 32



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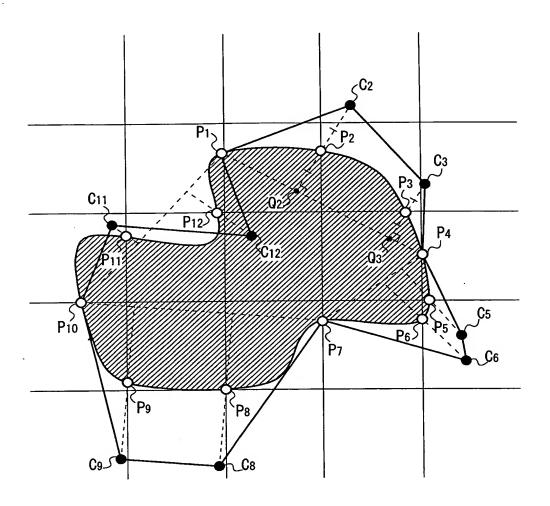


FIG. 34

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	RANGE OF DATA	DATA SIZE
COORDINATE OF CONTROL POINT	0~1023	2×16bit
	TOTAL	32k (n+1) bit

FIG. 35

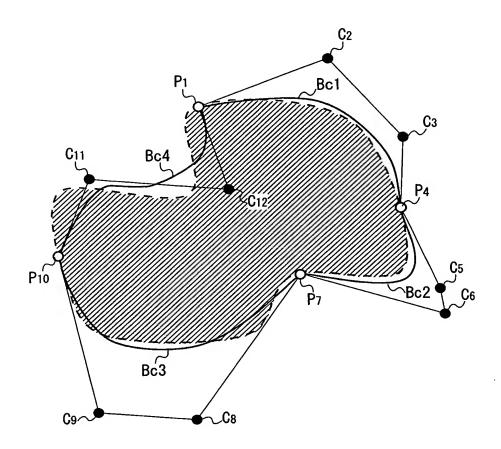


FIG. 36

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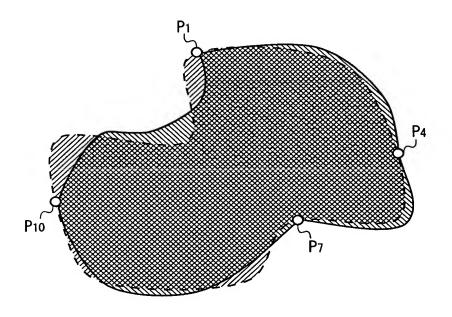
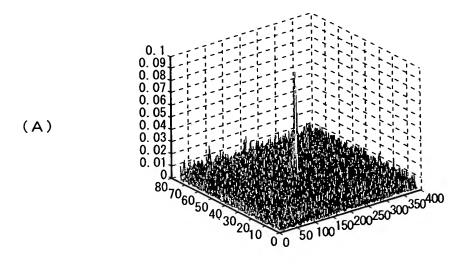


FIG. 37

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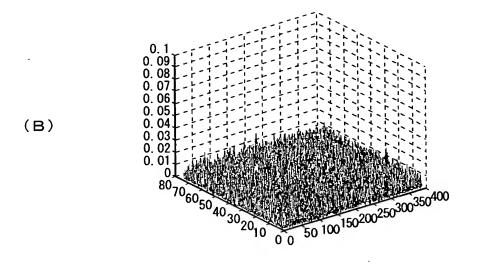


FIG. 38

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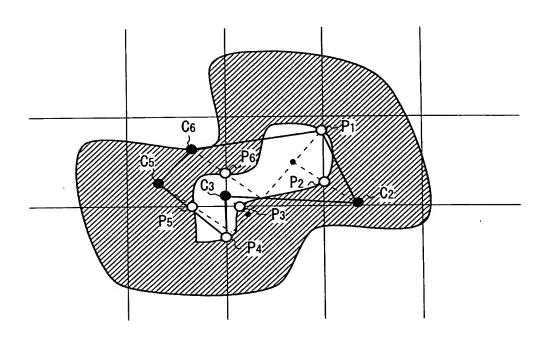


FIG. 39

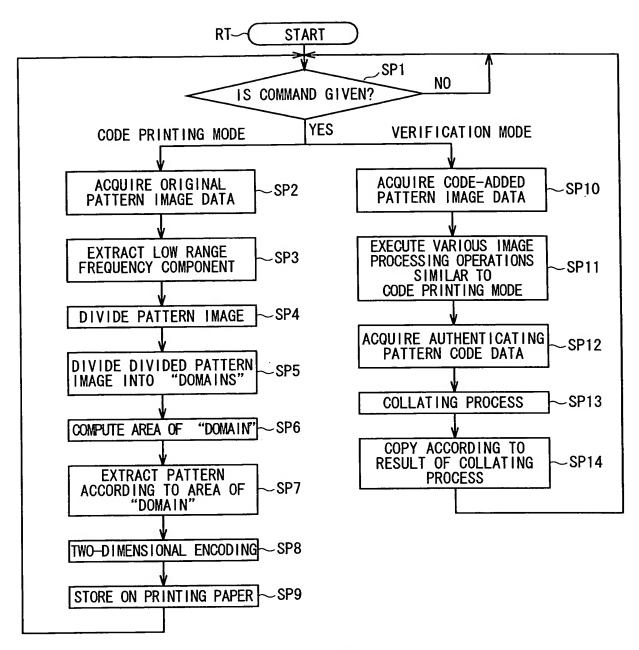
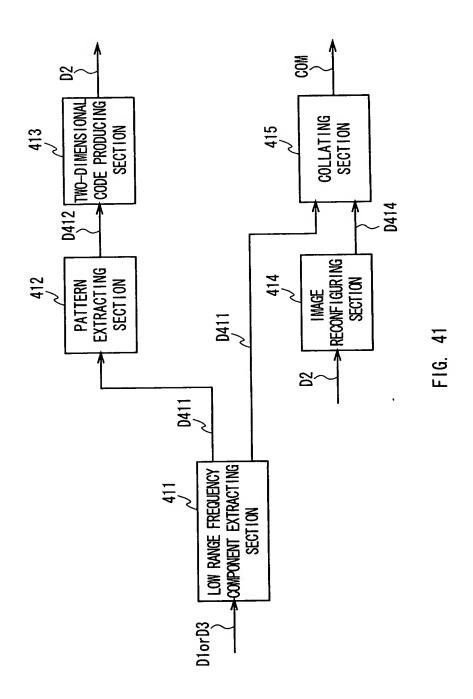
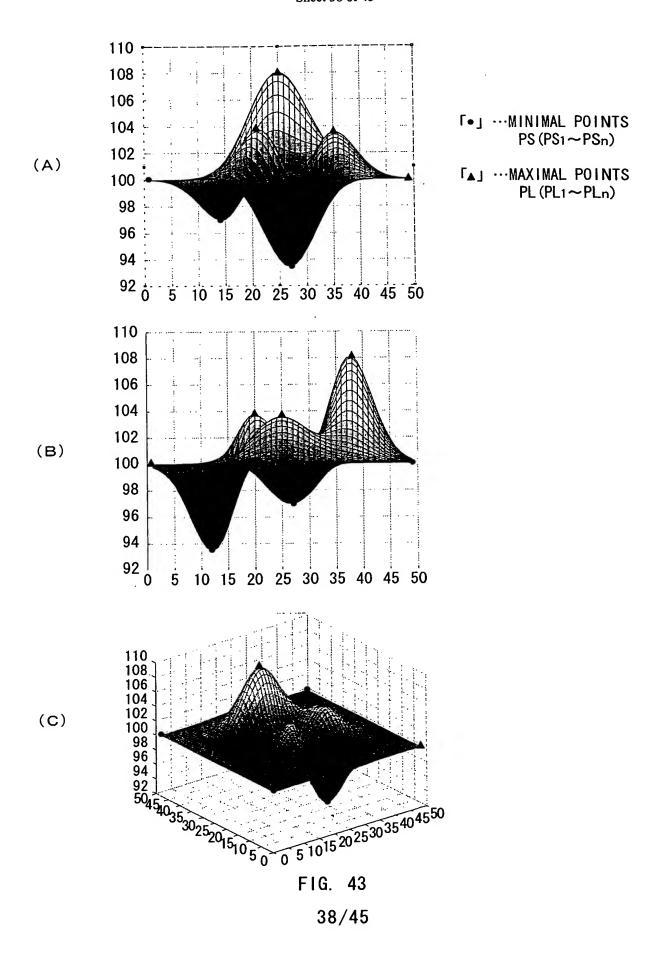


FIG. 40



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「●」 …MINIMAL POINTSPS (PS1~PSn)
「▲」 …MAXIMAL POINTSPL (PL1~PLn)

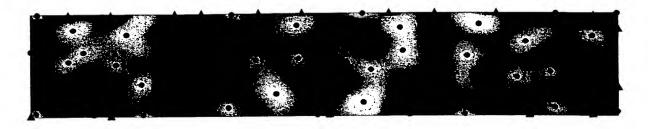


FIG. 42

	RANGE OF DATA	DATA SIZE
POSITION OF THE MINIMAL POINTS OR MAXIMAL POINTS(xp, yp)	0~1023	2×16bit
LUMINANCE VALUE	0~255	8bit
	TOTAL	40bit

FIG. 44

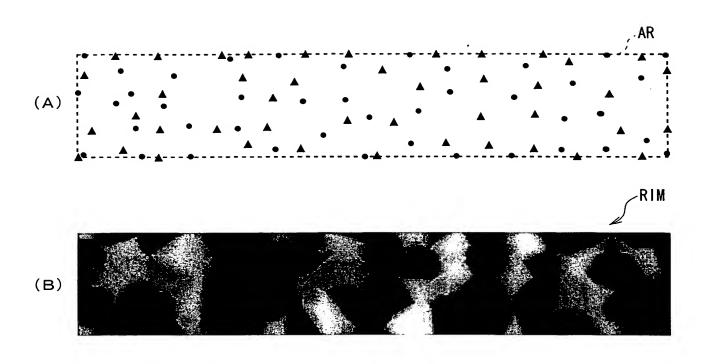


FIG. 45

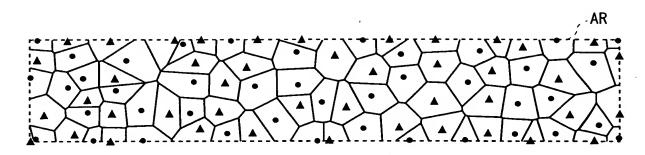
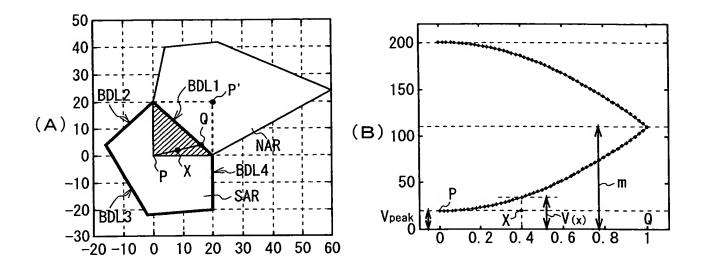


FIG. 46



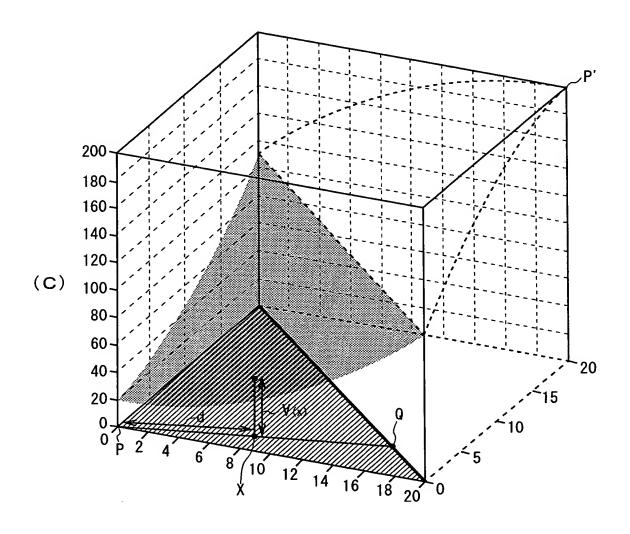


FIG. 47

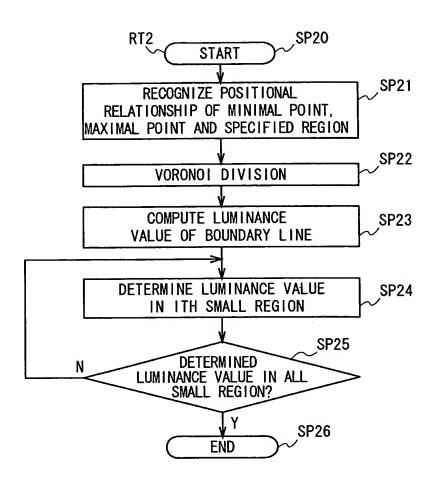


FIG. 48

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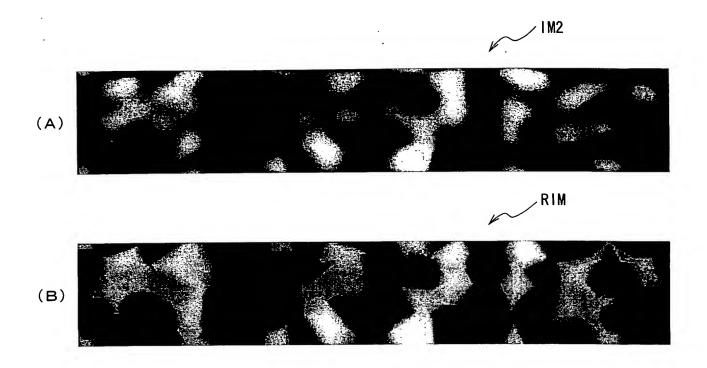


FIG. 49

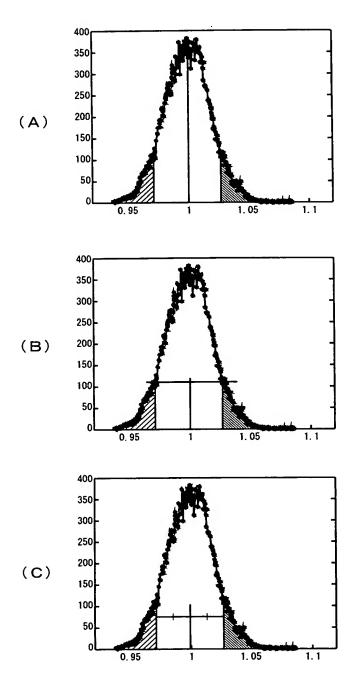


FIG. 50

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EXPLANATION OF REFERENCE NUMERALS

1...UNAUTHORIZED COPYING PREVENTING APPARATUS, 2...CONTROL SECTION,
4...SCANNER SECTION, 4a...CODE READER, 5...PRINTER SECTION, 11...LOW RANGE
FREQUENCY COMPONENT EXTRACTING SECTION, 12...IMAGE DIVIDING/SEPARATING SECTION,
13...PATTERN DIVIDING/REGION DEFINING SECTION, 14...PATTERN EXTRACTING SECTION,
15...TWO-DIMENSIONAL CODE PRODUCING SECTION, 16...COLLATING SECTION, D1...PATTERN
IMAGE DATA, D2... AUTHENTICATING PATTERN CODE DATA, D3... CODE-ADDED PATTERN IMAGE
DATA, D4... PRINTED CONTENTS IMAGE DATA, D11... LOW RANGE PATTERN IMAGE DATA, D12...
WHITE COMPONENT PATTERN IMAGE DATA, D13... BLACK COMPONENT PATTERN IMAGE DATA, D14...
WHITE DOMAIN DATA, D15... BLACK DOMAIN DATA, D16... AUTHENTICATING PATTERN DATA,
D26... COMPARATIVE PATTERN DATA, OP... ORIGINAL PRINTING PAPER, XPc... CODE-ADDED
PRINTING PAPER, AR... SPECIFIED AREA, BC...AUTHENTICATING PATTERN CODE,
IM1...REGION PATTERN IMAGE, IM2... LOW RANGE PATTERN IMAGE, WIM...WHITE COMPONENT
PATTERN IMAGE, BIM...BLACK COMPONENT PATTERN IMAGE, WD (WD, THROUGH WD,)... WHITE
DOMAIN, BD (BD, THROUGH BD,)... BLACK DOMAIN